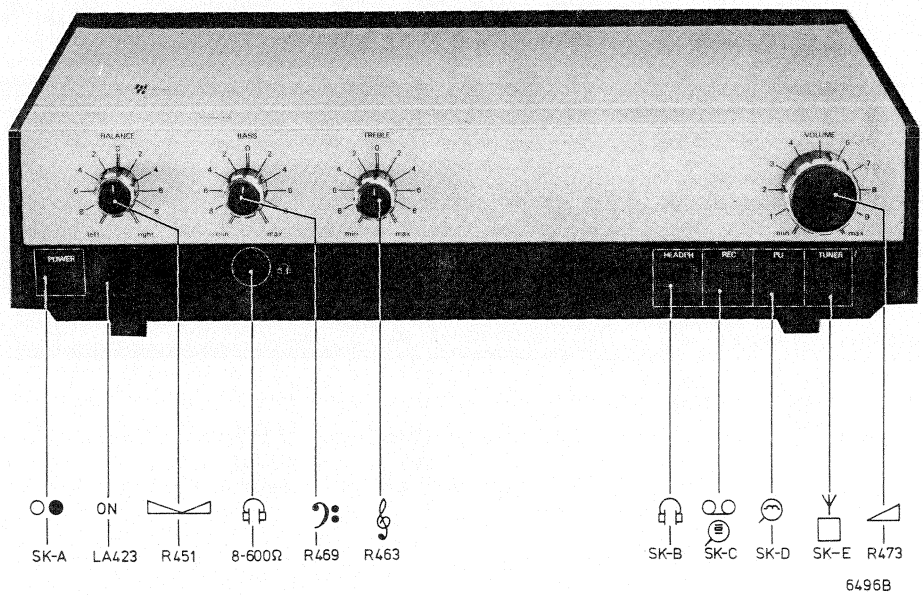
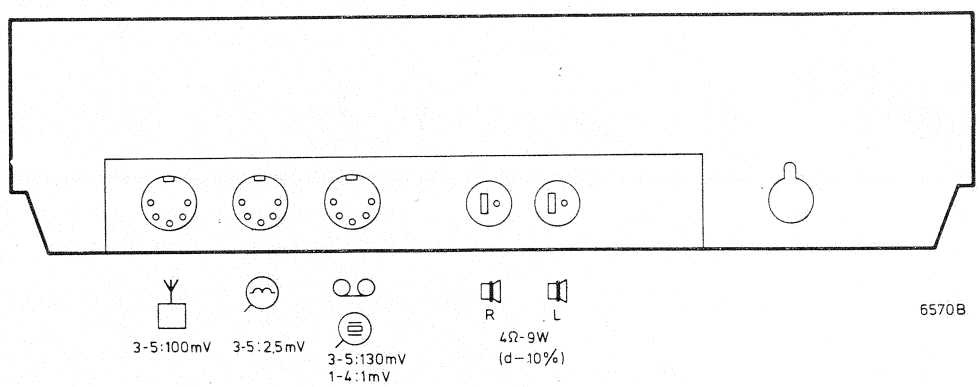
Hi-Fi amplifier 22RH540/00

Service
Service
Service

Service Manual



6496B



6570B

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

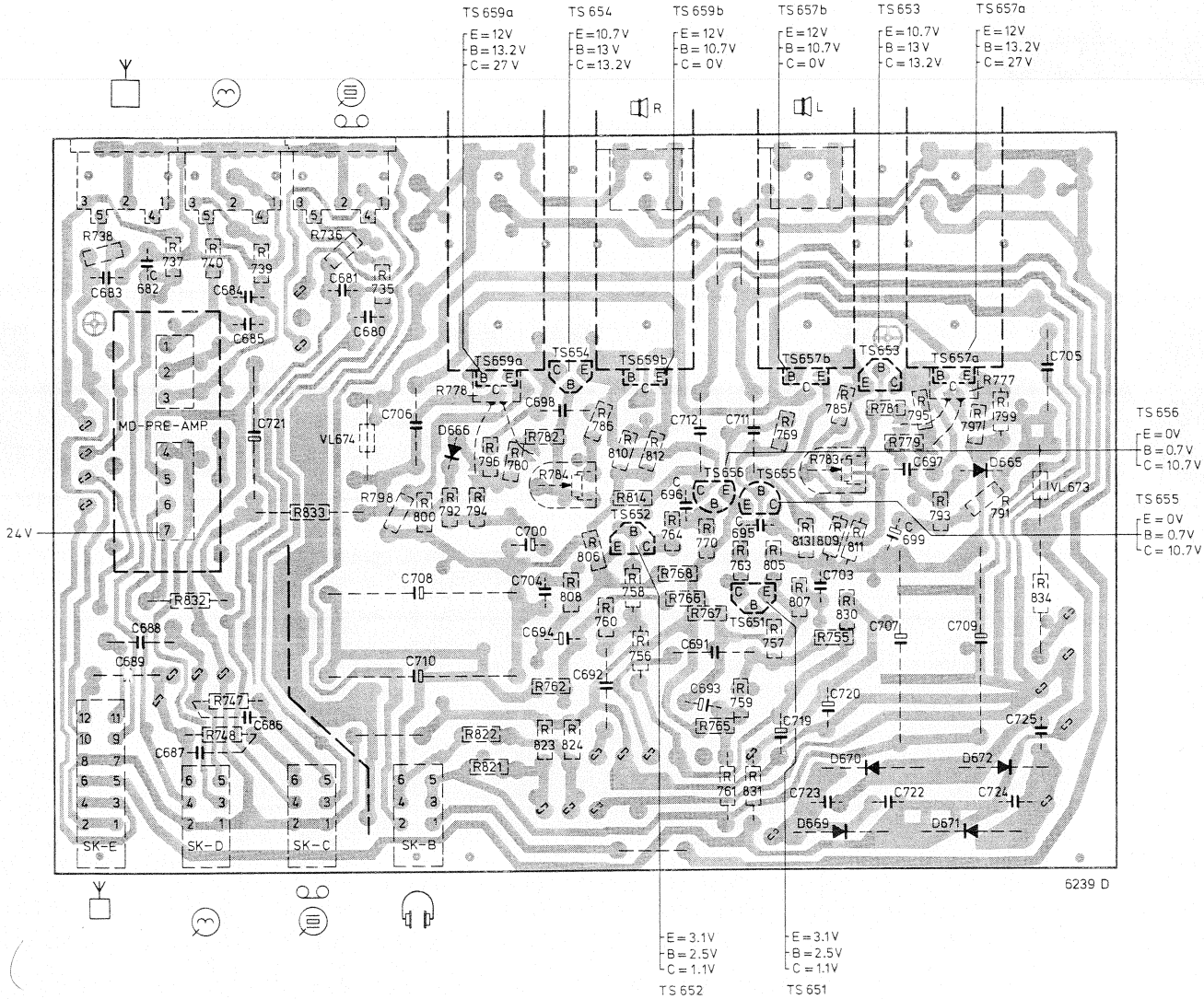
Subject to modification

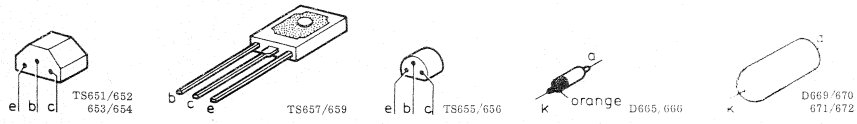
4822 725 11565

Printed in The Netherlands

PHILIPS

C	683 682 685 684 721 681 680 706 700 698 696 712 711 695 699 697 705
C	689 688 687 686 710 708 704 694 692 693 691 719 723 703 720 707 722 709 724 725
R	738 737 740 739. 833. 736. 735. 798. 800. 792. 794. 778. 796. 780. 782. 784. 806. 786. 810. 814. 812 770. 769. 813. 809. 783. 785. 811. 781. 779. 795. 793. 797. 791. 777. 799
R	832 748 747 821÷824. 762. 808. 760. 758. 756. 763÷768. 761. 759. 831. 757. 805. 807. 755. 830 834
MISC.	SK-E SK-D SK-C VL674 SK-B D666 TS659a TS654, 652, 659b TS656, 651, 655, 657b. D669, 670. TS653, 657a. D671, 672, 665. VL673





CS52571

Service Information

1975-27-11

HI FI AMPLIFIER 22RH540

R75-84

Already published: R75-45, 59.

In due course no separate push-buttons will be available. Then, the five push-buttons will be supplied under codenumber: 4822 410 21683.
The clamping springs for the push-buttons are supplied under codenumber 4822 492 62007.

Déjà paru: R75-45, 59.

Lorsque le stock aura été assaini, les 5 touches ne seront plus livrable séparément. Dès ce moment, les touches seront livrées sous un seul numéro de code: 4822 410 21683.
Les ressorts de fixation sur les axes des touches sont livrés sous le code 4822 492 62007.

Reeds gepubliceerd: R75-45, 59.

Wanneer de voorraad gesaneerd is zullen de vijf druktoetsen niet meer separaat geleverd worden. Vanaf dan zullen de vijf druktoetsen geleverd worden onder één codenummer, te weten 4822 410 21683.
De klemveren die om de assen van de knoppen zitten worden geleverd onder codenummer 4822 492 62007.

Bereits veröffentlicht: R75-45, 59.

Seinerzeit werden keine separaten Tasten mehr geliefert. Die fünf Tasten werden dann unter einer Codenummer geliefert: 4822 410 21683.
Die Klemmfedern für Tasten werden unter der Codenummer 4822 492 62007 geliefert.

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Service Information

1976-04-28

HIFI AMPLIFIER 22RH540

A76-215

With code PL04, another transformer and voltage adapter were applied.
Reason: The new transformer, code 4822 146 40221, meets the safety demands better.
For changed connections, see the drawings.
The codenumber of the temperature fuses is 4822 252 20071

On the control panel, the transistors TS401...404 were replaced by types with different cases.
TS401 and 402 are now BC549B - 5322 130 40936
TS403 and 404 are now BC558A - 4822 130 40962.

LA423 (6V-50mA) was changed to 6,3-44mA - 4822 134 40331 with longer life.
Effective from code PL01 527.

Sur les appareils marqués PL04 il a été monté un nouveau transformateur et un autre adapteur de tension.
Le nouveau transformateur répond mieux aux normes de sécurité.
Code de ce nouveau transformateur: 4822 146 40221.
Les liaisons modifiées aux dessins.
Le code des fusibles thermiques est le 4822 252 20071.

Sur le panneau de régulation les transistors, TS401...404 sont remplacés par d'autres types de transistors dont le boîtier est différent.
TS401 et 402 sont désormais des BC 549B (5322 130 40936)
TS403 et 404 sont désormais des BC558A (4822 130 40962)

LA423 passe de 6V-50mA à 6,3-44mA, sa durée de vie étant prolongée;
Code: 4822 134 40331. Introduit à partir de code PL01 527.

Met kode PL04 is een andere transformator en spanningscarroussel toegepast.
De reden hiervan is: de nieuwe transformator voldoet beter aan de veiligheidseisen.
Het kodenummer van de nieuwe transformator: 4822 146 40221
Voor de gewijzigde aansluitingen, zie de tekeningen.
Het kodenummer van de temperatuurzekeringen is: 4822 252 20071

Op het regelpaneel zijn de transistoren TS401...404 vervangen door typen met een andere behuizing.
TS401 en 402 zijn nu BC549 B (5322 130 40936)
TS403 en 404 zijn nu BC558 A (4822 130 40962).

LA423 was 6V-50mA en is gewijzigd in 6,3V-44mA, met een langere levensduur. Codenummer 4822 134 40331
Ingevoerd met kode PL01 527.

In Geräten mit Code ab PL04 wurden ein anderer Trafo und ein anderer Spannungswähler benutzt.
Der neue Trafo (4822 146 40221) genügt nämlich den Sicherheitsvorschriften besser. Codenummer der Thermosicherungen ist 4822 252 20071.
Für die geänderten Anschlüsse siehe die Zeichnungen.

Auf den Bedienungs-platine sind die Transistoren TS401...TS404 durch Typen mit einem anderen Gehäuse ersetzt worden. Für TS401/402 benutzt man jetst BC 549B (4822 130 40936) und für TS403/404 BC 558A (4822 130 40962)

Für LA 423 (6V-50mA) benutzt man jetst eine Lampe von 6,3 V-44mA mit längerer Lebensdauer.
Code-Nummer: 4822 134 40331.
Eingeführt in Geräten mit Code PL01 527.

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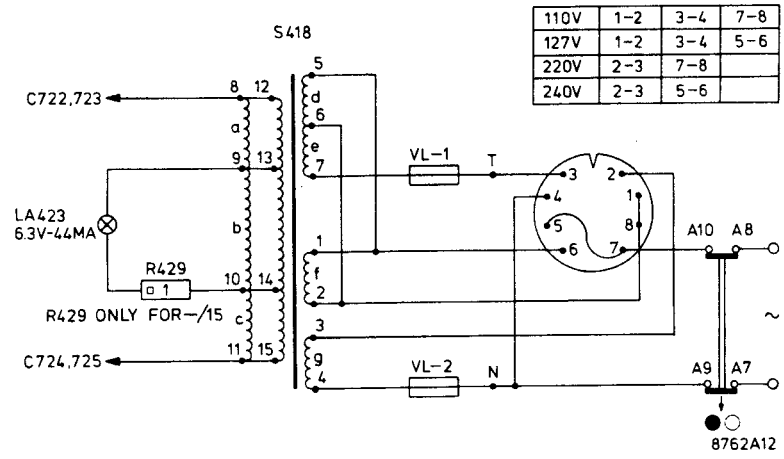
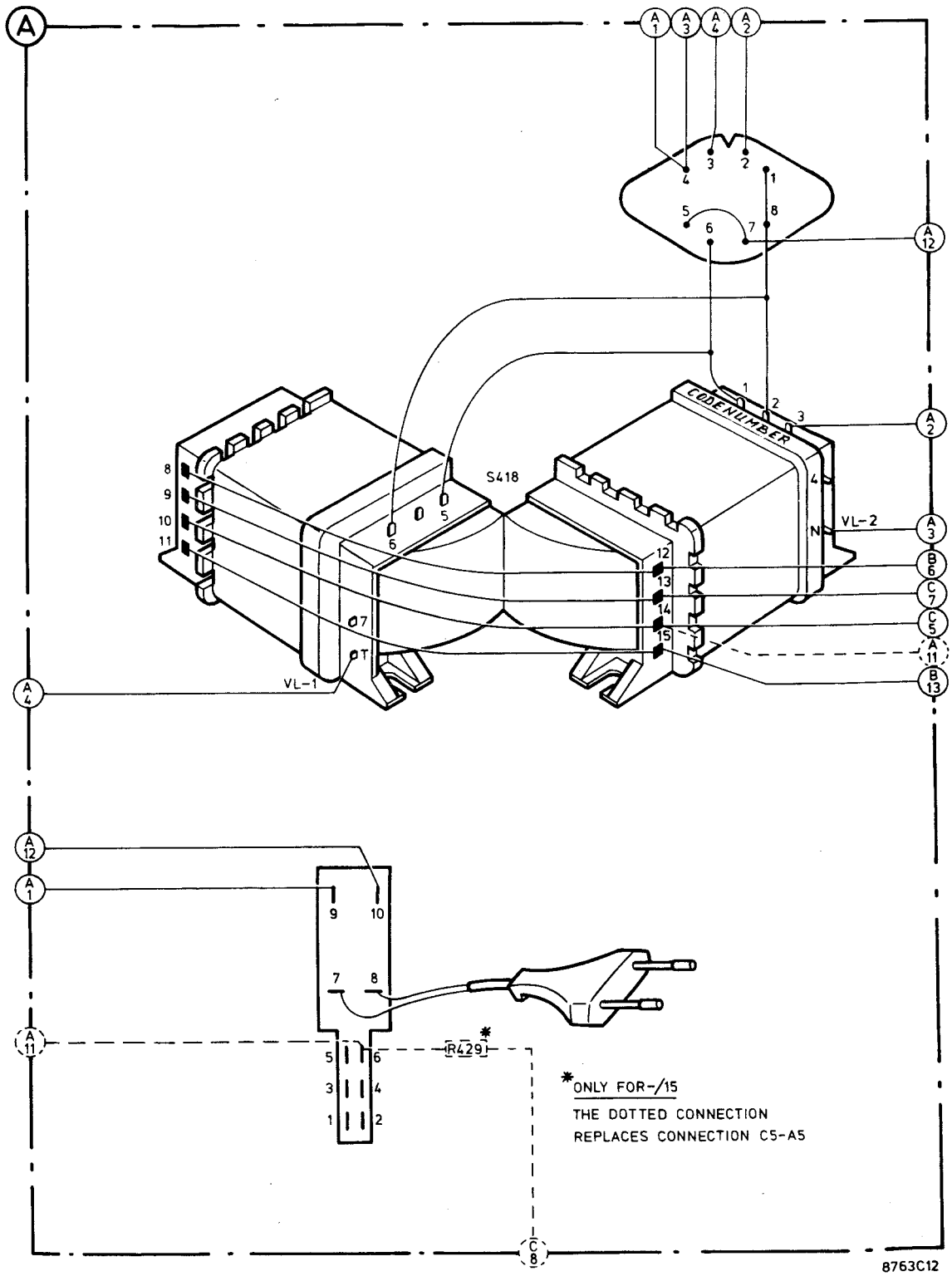
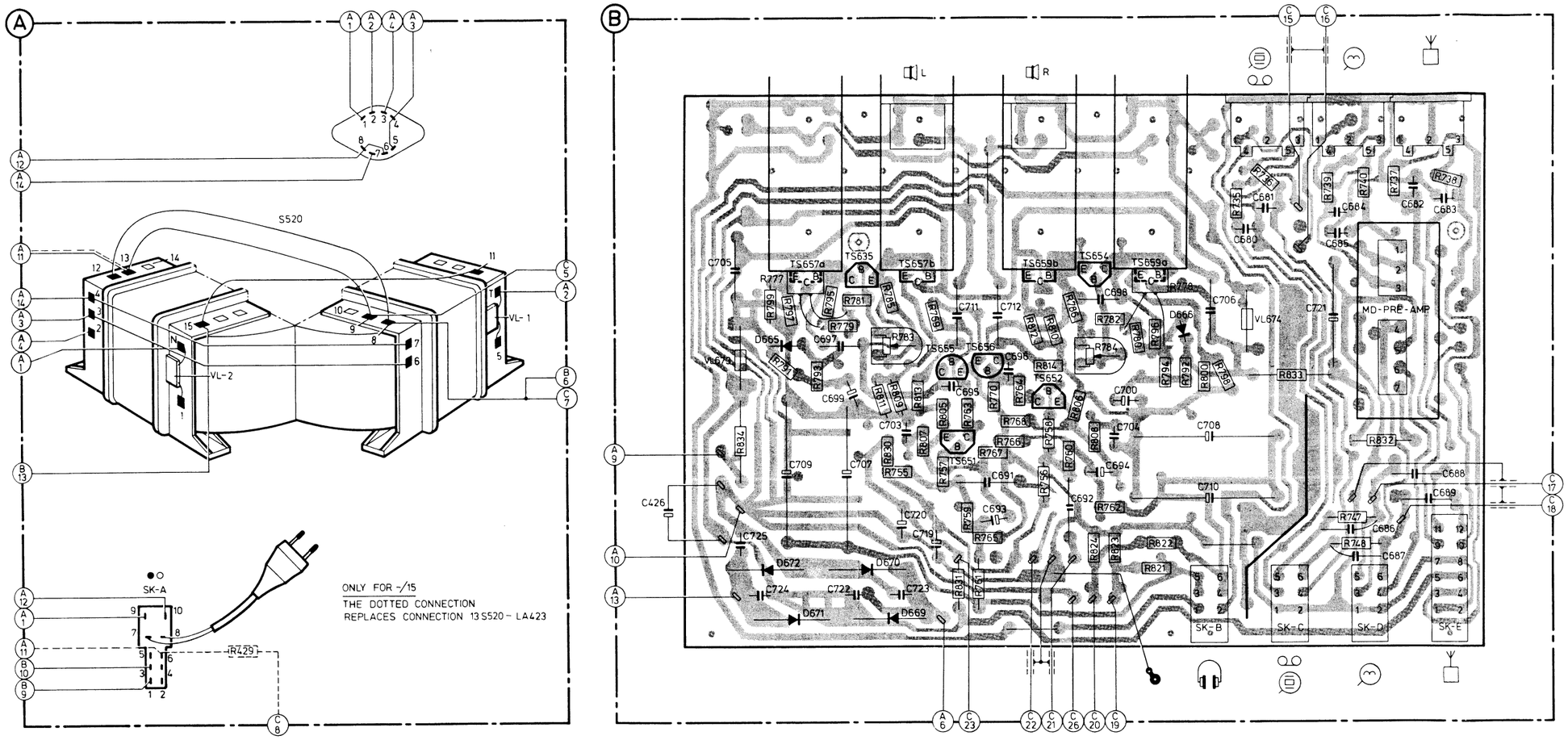
VOLTAGE ADAPTOR CONNECTIONS

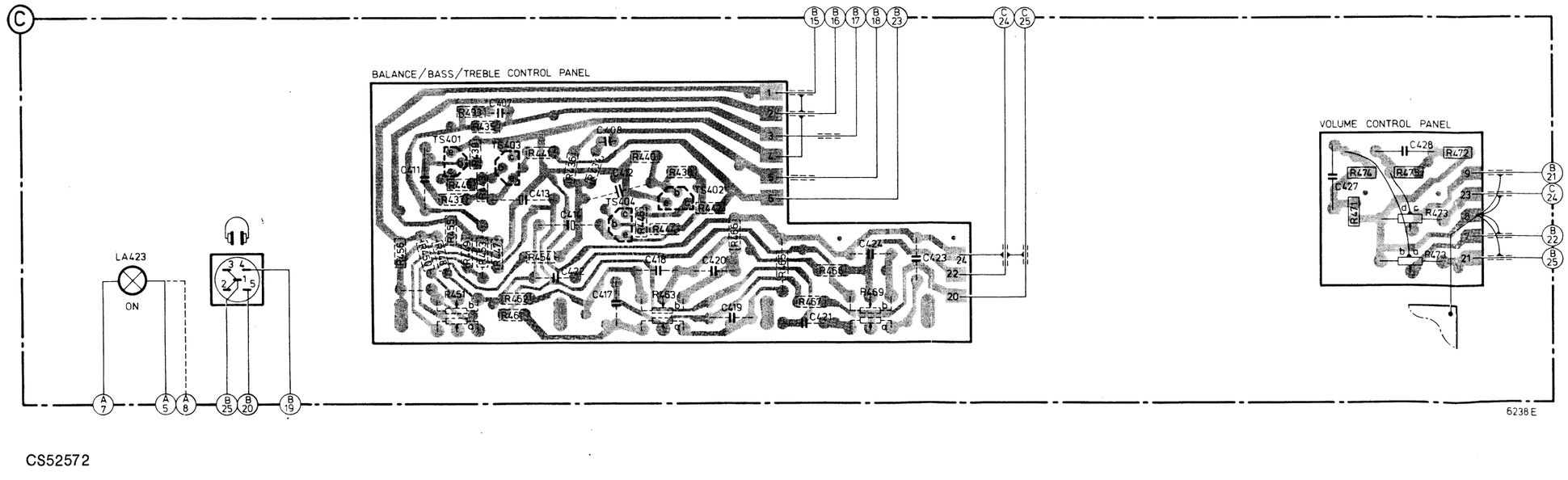
110V	1-2	3-4	7-8
127V	1-2	3-4	5-6
220V	2-3	7-8	
240V	2-3	5-6	





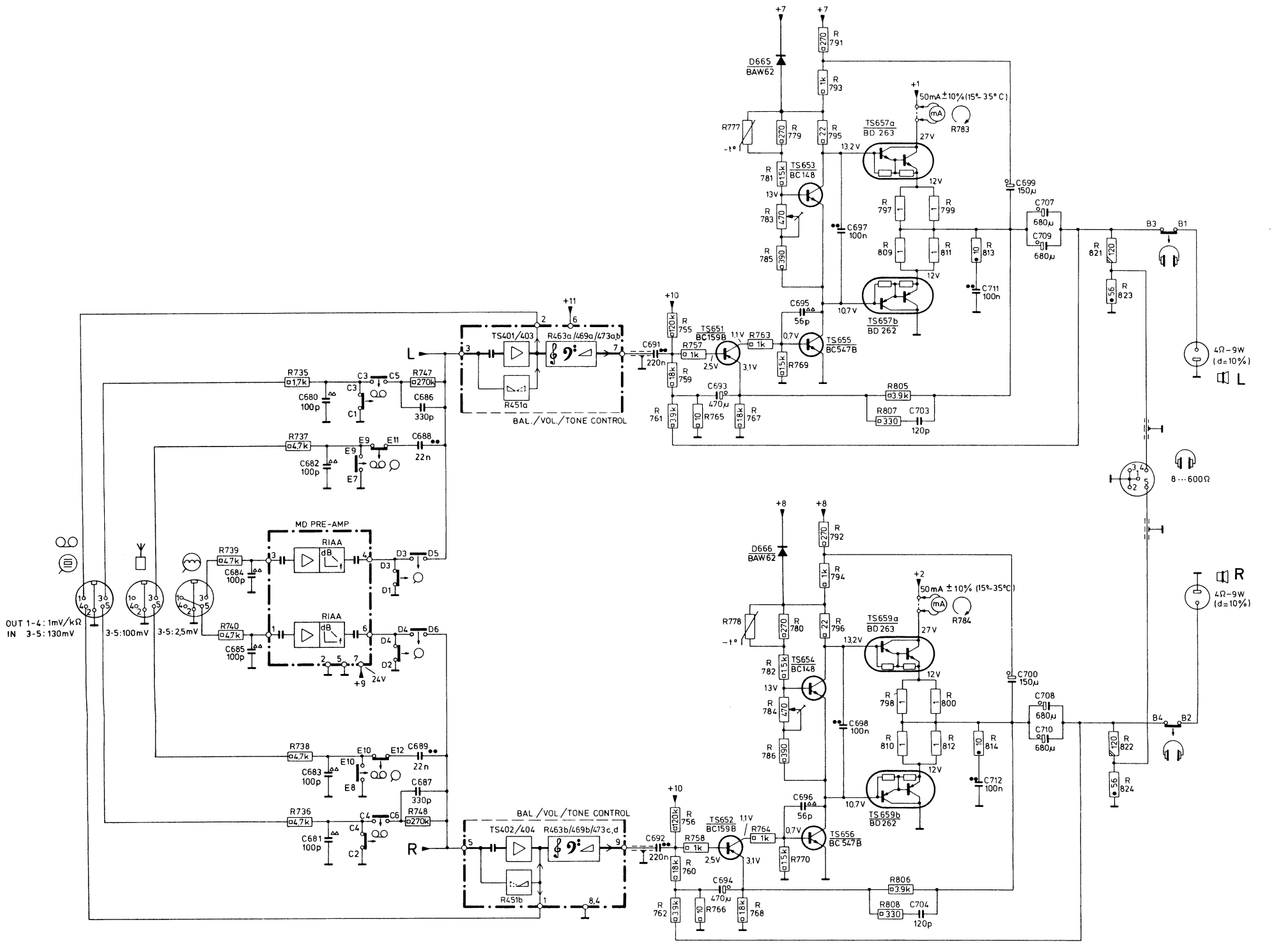
C	407 705 709 697 699 707 703 695 711 712 696 694 698 700 704 708 706 680 681 721 684 685 686 687 682 683 688 689	C
C	411 413 414 422 417 412 418 408 420 426 419 725 724 421 424 722 423 720 723 719 691 693 692 710 427 428	C
R	433 434 799 777 791 797 793 795 779 781 811 785 783 809 813 769 770 812 814 810 786 806 784 782 780 796 776 794 792 800 798 735 736 833 739 740 737 738	R
R	429 456 447÷451 435÷437 441 445 439 443 453÷455 461 462 438 440 446 444 834 463 442 465÷469 830 755 807 805 757 831 759 761 763÷768 765 758 760 808 762 821÷824 747 748 832 471÷475	R
MISC.	VL-2 VL-1 VL673 D665 TS657a TS653 TS657b TS655 TS656 TS659b 652 654 TS659a D666 VL674	MISC
MISC	LA423 S520 TS401 TS403 TS404 TS402 D672 671 D670 669 TS651	MISC





CS52572

R	739 740 735···738 747 748 451a-b 463a-b 469a-b 473a,b,c,d 830···834 755···770 777···786 791···796 797···800 805···814 429 821···824	R
C	684 685 680···683 686···689 719···721 705 706 691 692 693 694 426 722···725 695 696 697 698 703 704 711 712 699 700 707···710	C
MISC	TS401···404 VL673 674 TS651···656 D665 666 669···672 TS657a-b 659a-b LA423 S418	MISC



DRAWN IN POSITION TUNER

Carbon resistor E24 series 0.125 W 5 %

Carbon resistor E12 series 0.25 W < 1 MΩ 5 % > 1 MΩ 10 %

Carbon resistor E12 series 0.5 W < 1.5 MΩ 5 % > 1.5 MΩ 10 %

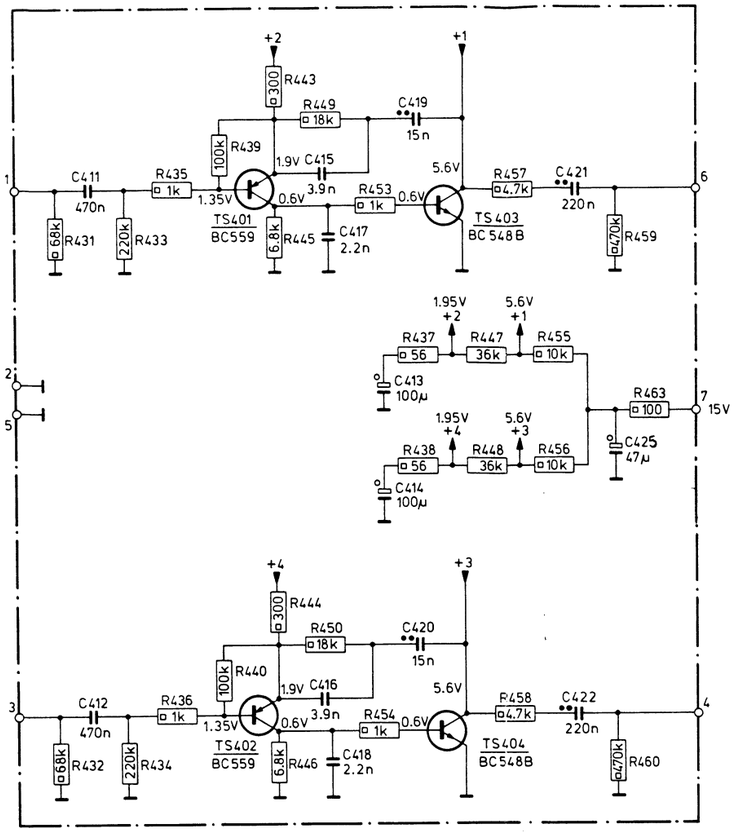
Plate ceramic capacitor

Flat-foil polyester capacitor

Miniature electrolytic capacitor

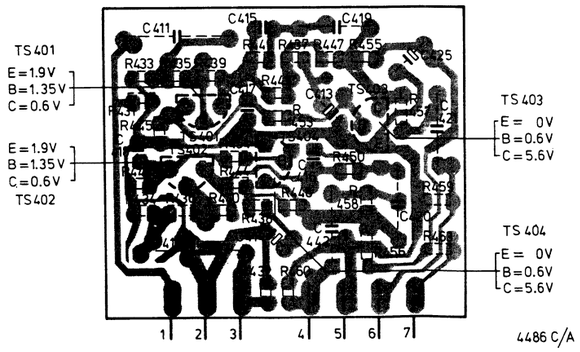
CS52573

M.D. PRE-AMPLIFIER



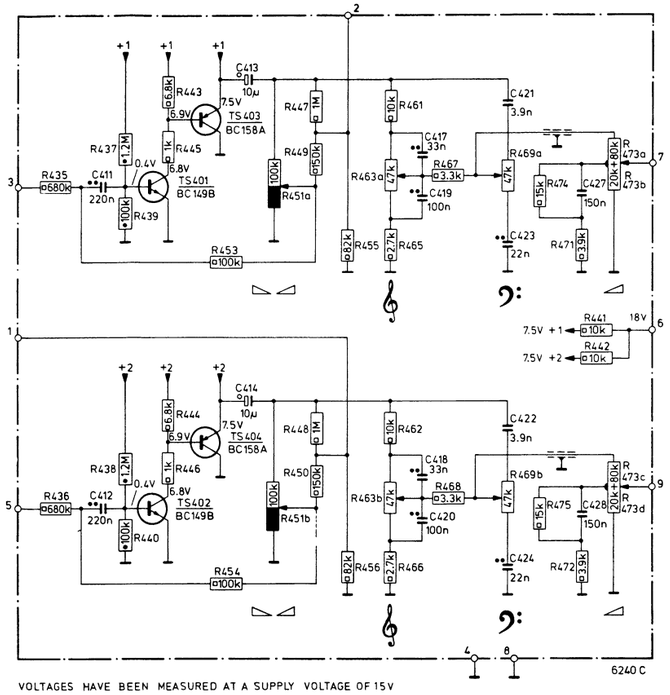
VOLTAGES HAVE BEEN MEASURED AT A SUPPLY VOLTAGE OF 15V

TS401/402
TS403/404



4486 C/A

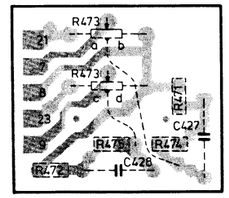
VOL.BAL.TONE - CONTROL



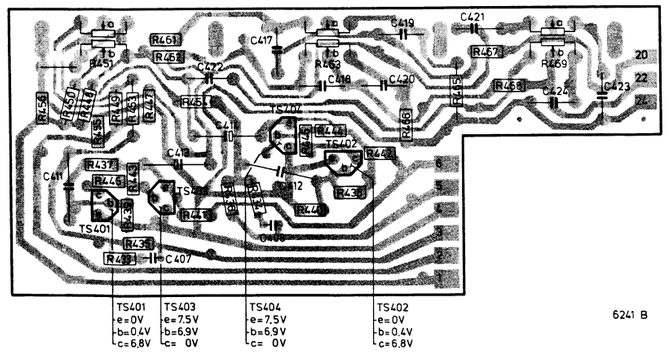
6240 C

VOLTAGES HAVE BEEN MEASURED AT A SUPPLY VOLTAGE OF 15 V

Carbon resistor E24 series	0.125 W		5 %
Carbon resistor E12 series	0.25 W	< 1 MΩ	5 %
		> 1 MΩ	10 %
Flat-foil polyester capacitor			
Miniature electrolytic capacitor			



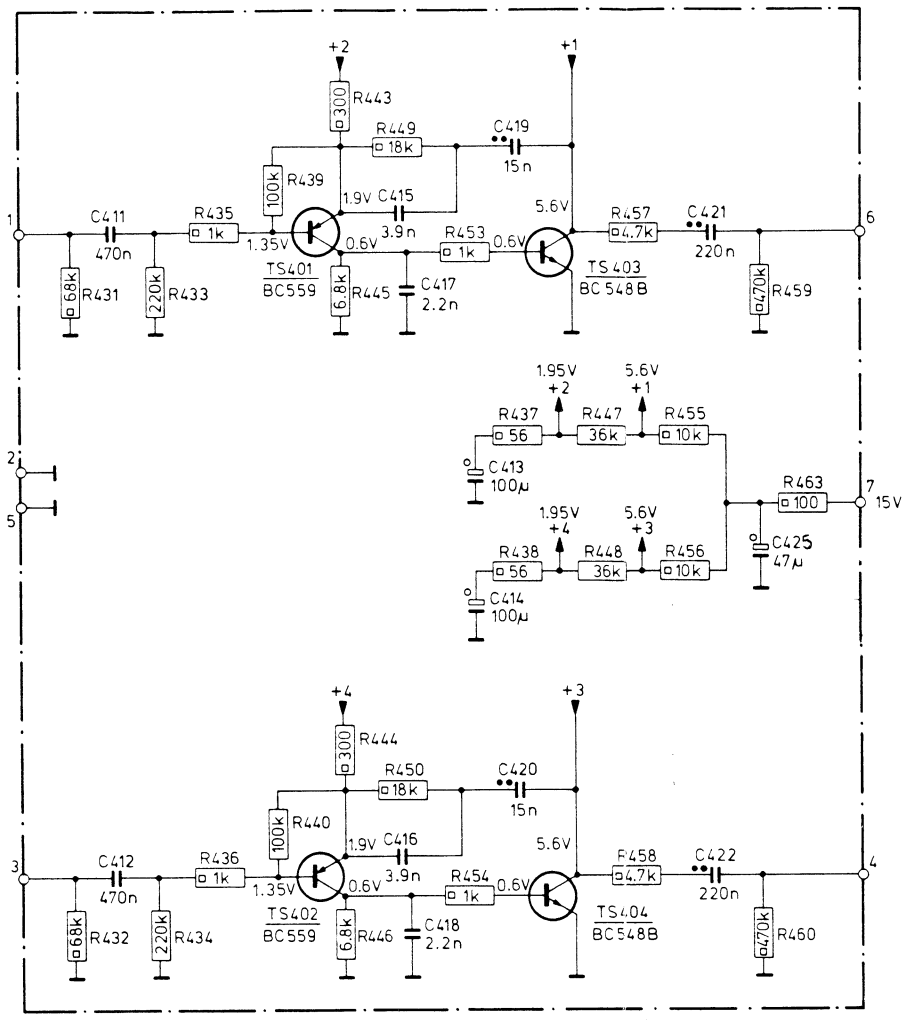
6242A



6241 B

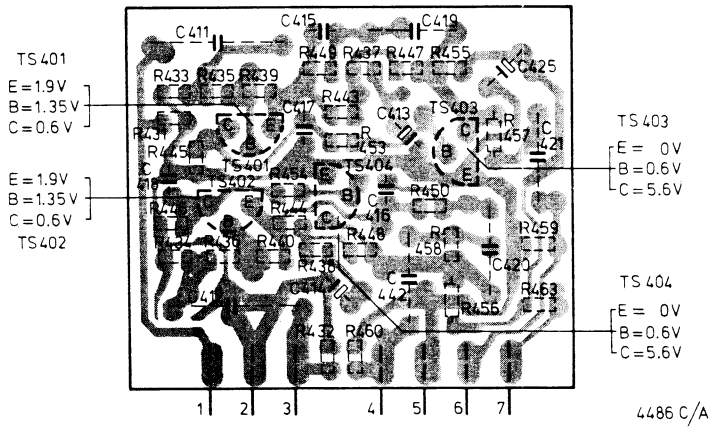
TS401/402
403/404

M.D. PRE-AMPLIFIER

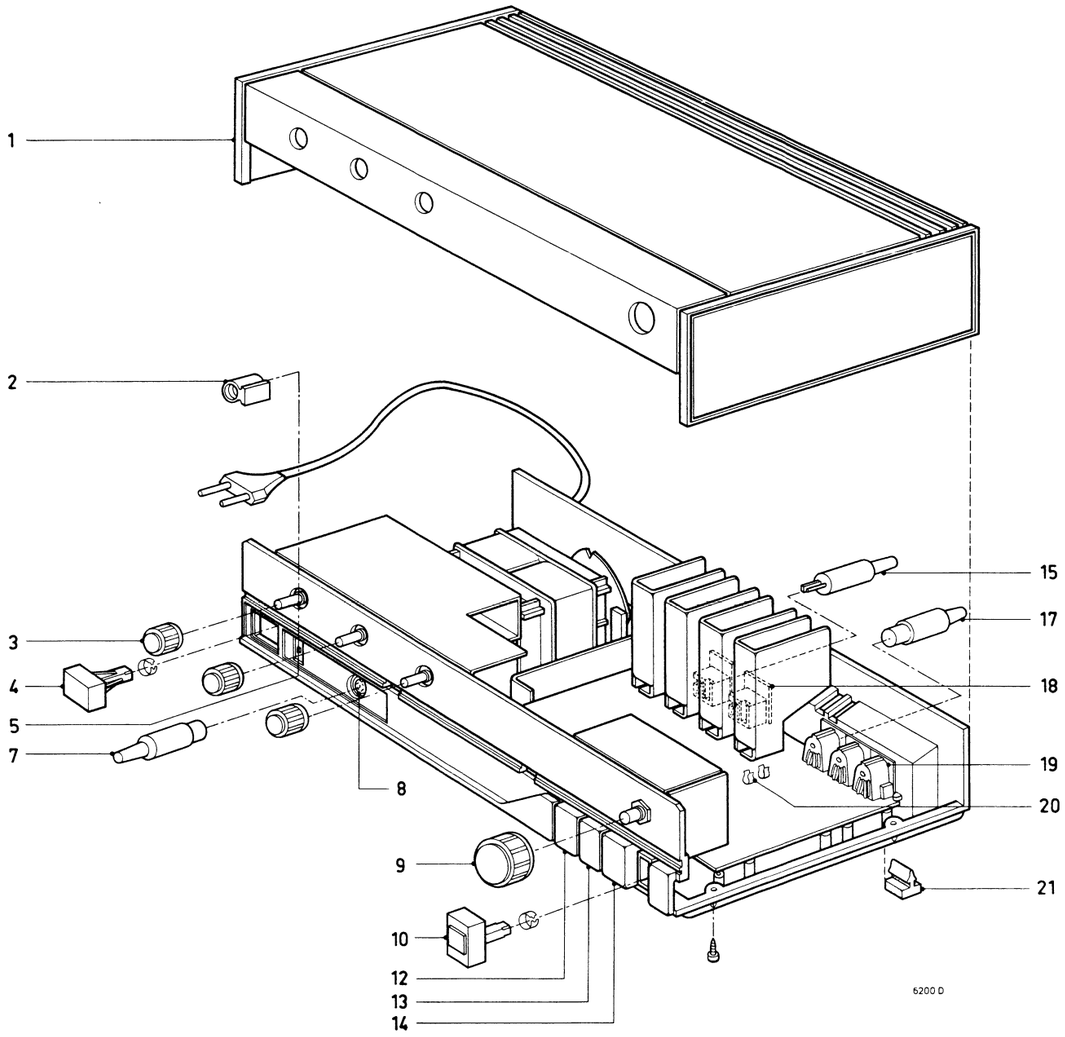


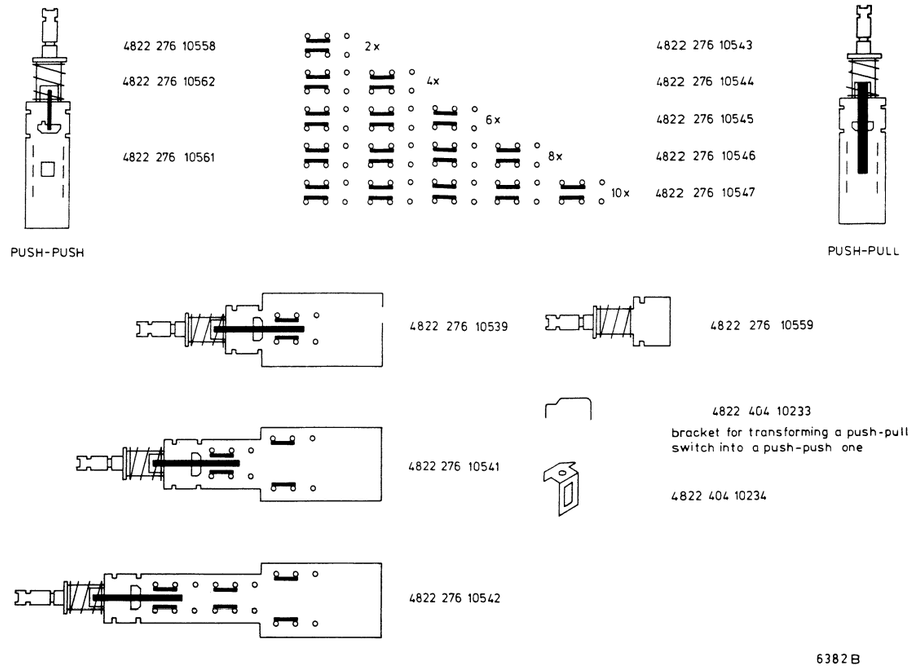
VOLTAGES HAVE BEEN MEASURED AT A SUPPLY VOLTAGE OF 15V

TS401/402
TS403/404



4486 C/A



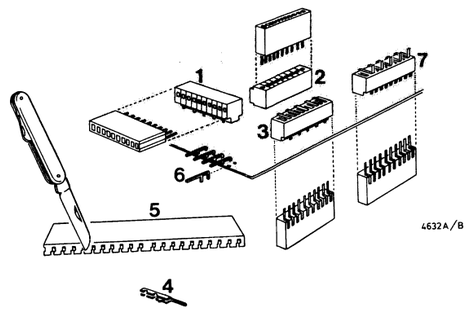


MECHANICAL PARTSLIST

1	4822 426 40056	8	4822 267 40215	15	4822 264 30041
/28	4822 426 40057	9	4822 413 50875	17	4822 264 40023
2	4822 255 10007	10	4822 410 40058	18	4822 267 30264
3	4822 413 30619	12	4822 410 40055	19	4822 267 40209
4	4822 410 20282	13	4822 410 40056	20	4822 492 60063
5	4822 381 10425	14	4822 410 40057	21	4822 462 70993
7	4822 264 40092				

Item	Code number
1	5322 267 64027 (10p)
2	4822 267 50209 (10p)
3	4822 267 50211 (10p)
4	4822 268 10107
5	5322 267 64007 (20p)
6	5322 264 54017

AMP - CONNECTORS



ELECTRICAL PARTS LIST

- TS -			- DIV -		
651,652	BC159B	5322 130 40716	S418	Mainstransformer	4822 146 20503
653,654	BC148	5322 130 40318	LA423	6 V - 50 mA	4822 134 40326
655,656	BC547B	4822 130 40959	VL673,674	1,25 A - slow	4822 253 30022
657,659	PAIR BD262/263	4822 130 41027	U407	MD- préamplifier	4822 212 40021
401,402	BC149B	5322 130 40313			
403,404	BC158A	5322 130 40614			
- D -					
665,666	BAW62	5322 130 30613			
669,670,671,672	BY126	5322 130 30192			
- C -					
686,687	330 pf	5322 121 54077			
703,704	2200 pf	4822 122 30114			
721,722,723,724	22000 pf	4822 122 30103			
421,422	3900 pf	4822 121 40401			
427,428	150 nf	4822 121 40104			
426	3300 uF - 40 V	4822 124 70237			
- R -					
451	potmeter 100k + 100k	4822 102 30209			
463,469	potmeter 47k + 47k	4822 102 30211			
473	potmeter 80k + 20k	4822 103 20235			
777,778	NTC	4822 116 30087			
783,784	trimpotmeter 470 Ω	4822 100 10038			
797...800 } 809...812 }	1 Ω - 1/4 W	4822 110 53027			
832	360 Ω - 1/4 W	4822 111 30452			
834	safety-res. 27Ω-1/4W	4822 111 30003			
429 -/15	1 Ω - 1/4 W	4822 110 63027			

CS52575